A Personal Clothing Construction Guidesheet for use in Flat Pattern Design

An Honors Thesis/Creative Project (ID 499)

by

Barbara L. Baumann

Thesis Director
Dr. Sue H. Whitaker

Sue H. Whitaker

Ball State University

Muncie, Indiana

May 1988

Expected date of graduation: Spring 1988

Table of Contents

This project deals with clothing design and construction; the final product is a computer program which yields personalized clothing construction guidesheets for use by students in the flat pattern design course here at Ball State University. The students enrolled in HTC 300/501 actually design original garments and the patterns which will be used to make the garments. Particularly at the undergraduate level, the students do not have highly developed sewing skills, and they need step by step instructions on how to put a garment together. A commercially purchased pattern includes not only the pattern pieces, but also an instruction sheet on how to construct the garment. The students have not had written instructions in the past and have relied on the professor's knowledge of clothing construction.

The original concept for this project was formed by Dr. Sue H. Whitaker during visits to actual garment factories. She observed that in the clothing industry, all of the instructions necessary to construct basic garments are stored on a computer. She witnessed the pattern-maker retrieving the various files necessary to put together a commercial pattern guidesheet, and the idea for this project was conceived.

Dr. Whitaker later had the opportunity on campus to participate in a computer workshop which dealt with the Courseware Authoring System (CAS) and Digital Authoring Language (DAL), both of which are used by many faculty to create lessons on the VAX computer. Dr. Whitaker began to create this guidesheet program using the skills which she acquired in the computer course; however, she ran into many difficulties and was unable to complete the project.

As a computer science major with a strong interest in clothing and textiles, I was intrigued by this project because it allowed me to combine two subjects that I enjoyed. I was enrolled in the HTC 300 course when I began discussing this project with Dr. Whitaker, and I could see firsthand that there was a need for written, step by step instructions on garment construction.

I had never worked with CAS or DAL, so my work in the beginning was to learn the language and its environment. Once I had gained a working knowledge of DAL, I analyzed Dr. Whitaker's program to determine how it functioned and what the problem points were. More time and research were necessary before I was able to get the program running, but alas, I was able to taste success when it began to work! Dr. Whitaker had previously outlined some necessary expansions for the program, which I have implemented in the final project.

Once the program was functioning properly, I published it as a lesson called GUIDE21 within CAS. Within this CAS interface, the students can run assigned lessons. This lesson has been successfully tested with an entire class of HTC 300 students running the program at one time, and GUIDE21 will be used by students in the course in the future.

The compilation of this documentation has been a separate project in itself. Included are comprehensive instructions for both the students and professors, along with information which will be helpful should someone attempt to modify this project in the future.

GUIDE21

A CAS lesson developed by Sue Whitaker and Barbara Baumann for use in HTC300.

This computer program was developed to provide you with an individual guidesheet to use in the construction of your original garment. You will be asked a series of questions and your responses should be based on the design of your garment.

To run this lesson you will need the following:

a. **VAX computer account.** Show your BSU id in RB 165 to obtain an account. With this you get a USERNAME and a PASSWORD to allow you access to the computer.

b. **CAS information.** This is arranged by your instructor. For this lesson the information is as follows:

   Group name : **HTC3OO**
   CAS name : This is usually your first name, but there will be some variations if other students in the class have the same name.

c. **Computer Terminal.** To run this program you will need either a **VT240** or a **GIGI** terminal.

Logging on the Terminal

1. Press the "control" button (on the far left of the keyboard) and while holding it down, type the letter "N" twice. Now hit the "RETURN" key (on the far right of the keyboard).
   **Once you have done this, a welcome message should appear that will ask you to select a system.

2. We will be using the Cluster, so type the letter "C" (upper or lowercase) and then press the "RETURN" key.
   **A new message will now appear which prompts you for your username.

3. Type in your USERNAME and then press the "RETURN" key.

4. Type in your PASSWORD and then press the "RETURN" key. (your password will NOT show on the screen)

5. After a variety of messages, you will see a $ (dollar sign) at the left of your screen, letting you know that you have been successful at logging on. If you get an error message, try again or ask the assistant for help.

6. At the dollar sign, type CAS and then press RETURN.

Running the lesson in CAS

1. After a "one moment please" screen, you should be asked for your Group Name, to which you respond with **HTC300** and press RETURN.

2. Next you will be asked for your CAS Name. This is generally your first name. (If others in the class have the same name, the instructor will give you your CAS name.) Type in your CAS name and hit RETURN.

3. You will see a Student Menu with arrows pointing to the "Assignment" selection. Press RETURN to choose this selection.

4. An Assignment Menu will appear with one or more assignments listed. Use the arrow keys (on the far right of the keyboard) to select GUIDE21 and then press RETURN.

5. The lesson should start at this time. You must answer each question in the lesson.

6. When you complete the program, your personal guidesheet will be printed at the Printer in the front of RB134.

Ending a Lesson

1. When you have finished the lesson, the computer should go back to the Assignment Menu.

2. To exit, press the "PF4" button. (This is on the far upper right corner of the keypad.)

3. You should now be at the Student Menu. Type another "PF4" and you will be back at the **$**.

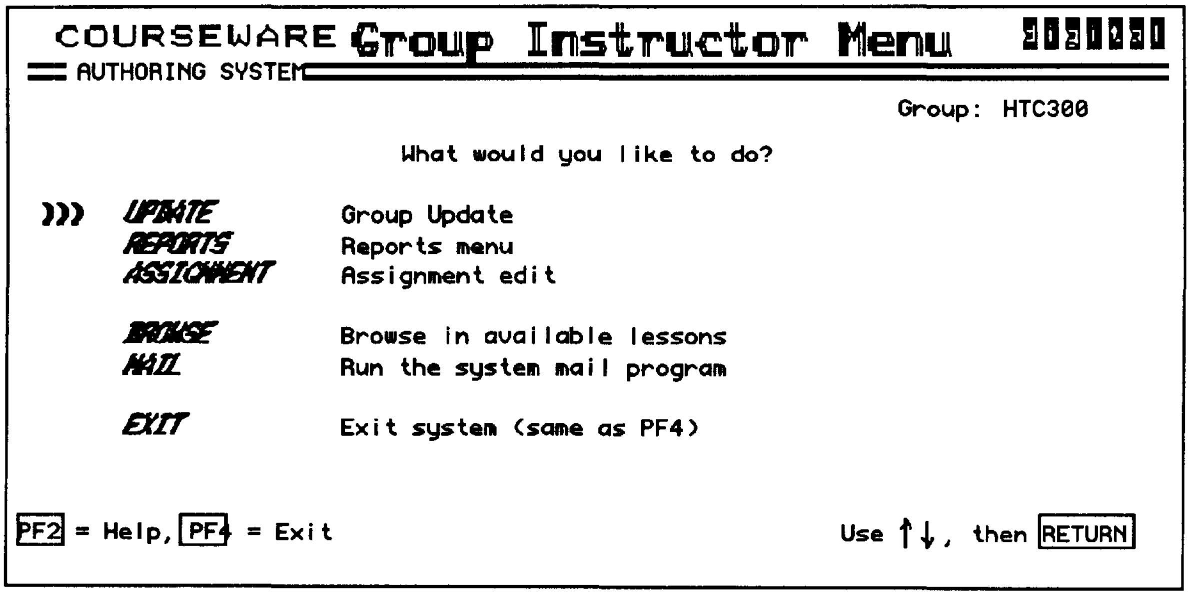
4. At the dollar sign, type in the letters "LO" (this stands for logoff) and press RETURN to log off the computer. You are now finished!! It is very important that you get a "logged off" message; if you don't, check with the lab assistant.

Guide21...The Instructor's Instructions

As an instructor, you should be familiar with the computer to the point that you understand the preceding instructions for the student on how to run the lesson. Moreover, there are additional responsibilities that the instructor must undertake. These responsibilities include:

a. Registering group members.
b. Adding or deleting the records of group members.
c. Assigning lessons.
d. Registering your class each semester with UCS.

The procedures for logging on are the same as those for a student; however, the menus which appear once you are in CAS will differ if you are listed as an instructor. As a group instructor, your main menu will look like this:



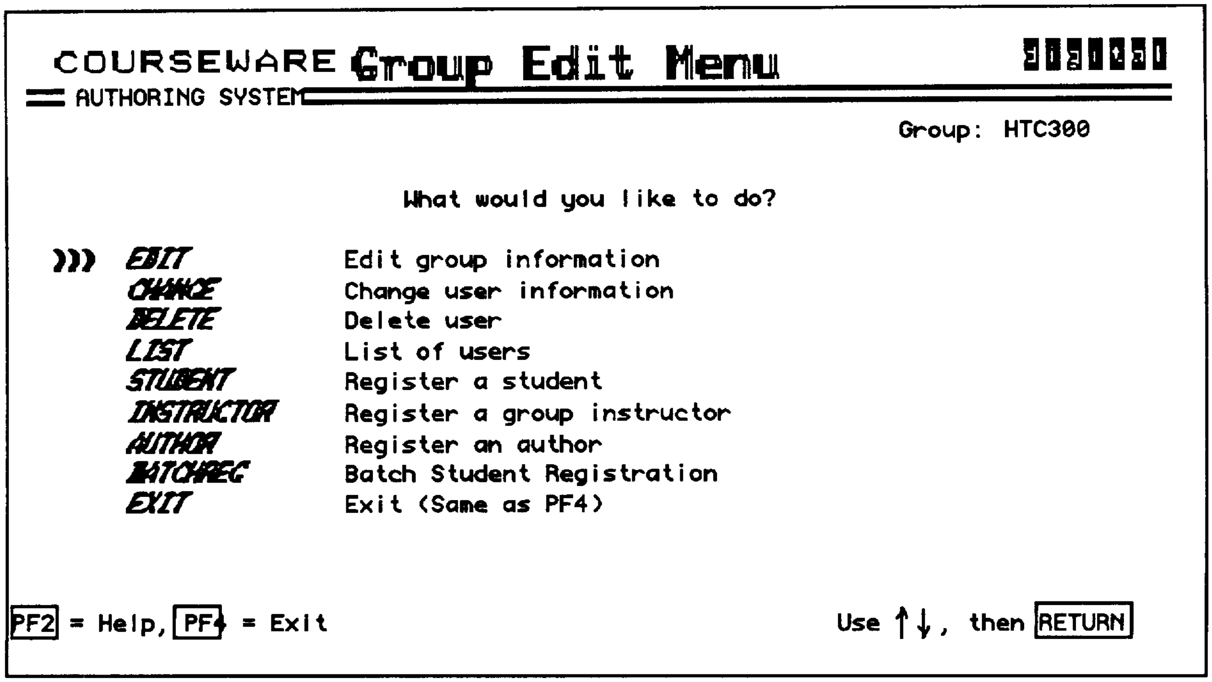
```
COURSEWARE Group Instructor Menu
AUTHORING SYSTEM
                                                     Group: HTC300

                      What would you like to do?

 ))) UPDATE        Group Update
     REPORTS       Reports menu
     ASSIGNMENT    Assignment edit

     BROWSE        Browse in available lessons
     MAIL          Run the system mail program

     EXIT          Exit system (same as PF4)

PF2 = Help, PF4 = Exit                           Use ↑↓, then RETURN
```

Registering Group Members

See the section of this manual entitled "Batch Registration of Students"

Adding or Deleting Group Members

"Group Update" is the option to choose from the Group Instructor Menu. Once this is selected, the following screen will appear:



```
 COURSEWARE Group Edit Menu
 AUTHORING SYSTEM
                                                  Group: HTC300

                          What would you like to do?

 ))) EDIT          Edit group information
     CHANGE        Change user information
     DELETE        Delete user
     LIST          List of users
     STUDENT       Register a student
     INSTRUCTOR    Register a group instructor
     AUTHOR        Register an author
     BATCHREG      Batch Student Registration
     EXIT          Exit (Same as PF4)

PF2 = Help, PF4 = Exit                           Use ↑↓, then RETURN
```

From this menu, you can choose to delete a student from your class; subsequent screens will ask for the student's CAS name and verify that you wish to delete the record. You may also add a student to the group by choosing the STUDENT option; however, to register an entire class of students you should follow the above instructions for registering group members.

The best way to learn about CAS is to experiment. Try the LIST option to see what it does! In order to register another instructor, choose the INSTRUCTOR selection and assign a new CAS name.

Assigning Lessons

At the "Group Instructor Menu," select the ASSIGNMENT option. A "Group Assignment Menu" will appear and from this menu you can ADD new assignments, DELETE assignments and LIST current assignments.

You will need to ADD the lesson named "GUIDE21" to the assignment list each semester.

Registering The Class With UCS

You must inform University Computing Services at the beginning of each semester during which you intend to use the lesson **GUIDE21** and the group name **HTC300.** To do this, call the CAS system manager, Marta McCoy (1541), and tell her the group name you wish to register.

Printing the Guidesheet

Although the guidesheet is automatically printed in RB 134, it is also saved in the student's directory as **GUIDE.LIS** and may be sent to any printer on campus by using the assigned printer name. For example, to print in NQ 243, the student would type in the following at the dollar sign prompt: $ **P_NQ243 guide.lis**
Due to the fact that the names assigned to each printer are changed from year to year, I have not listed the names here; however, the lab assistants can inform the students of the current assigned printer names.

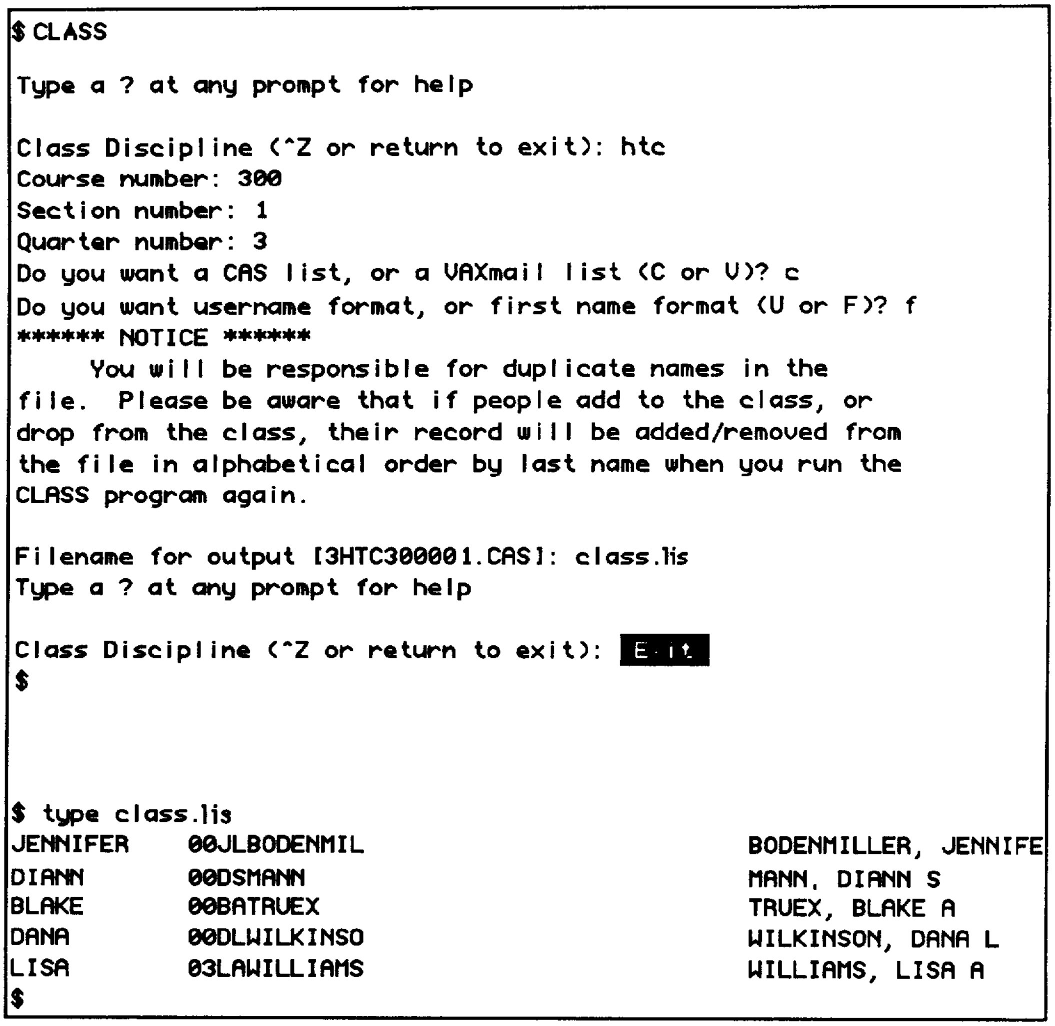
Computer Labs

Computer labs on campus which have the proper VT240 or GIGI terminals are:

RB134D	The program automatically prints out the guide sheet in RB134, so this is the simplest choice. RB 134 is the only 24 hour lab on campus.
PA 223	This lab is located conveniently in the practical arts building for use by the htc 300 class.
BL L08	This lab, which can be found in the basement of the library, is staffed with assistants who are familiar with CAS.
NQ 243	This lab also has lab assistants who are knowledgeable in CAS.
BB 220	The lab in BB220 is primarily a microcomputer lab, but there are currently five VT240 terminals located here.

Batch Registration of Students

1) Create a list of students by running the program CLASS.



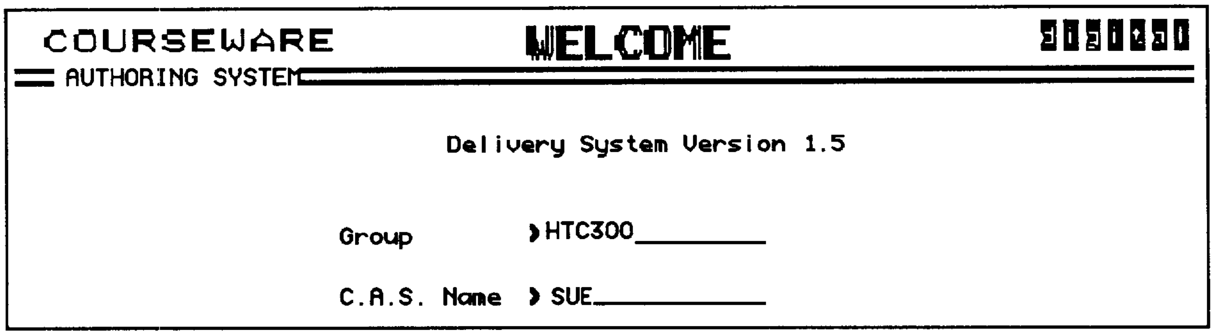
```
$ CLASS

Type a ? at any prompt for help

Class Discipline (^Z or return to exit): htc
Course number: 300
Section number: 1
Quarter number: 3
Do you want a CAS list, or a VAXmail list (C or V)? c
Do you want username format, or first name format (U or F)? f
****** NOTICE ******
     You will be responsible for duplicate names in the
file.  Please be aware that if people add to the class, or
drop from the class, their record will be added/removed from
the file in alphabetical order by last name when you run the
CLASS program again.

Filename for output [3HTC300001.CAS]: class.lis
Type a ? at any prompt for help

Class Discipline (^Z or return to exit): Exit
$



$ type class.lis
JENNIFER     00JLBODENMIL                      BODENMILLER, JENNIFE
DIANN        00DSMANN                          MANN, DIANN S
BLAKE        00BATRUEX                         TRUEX, BLAKE A
DANA         00DLWILKINSO                      WILKINSON, DANA L
LISA         03LAWILLIAMS                      WILLIAMS, LISA A
$
```

****Check this file for duplicate first names. If any exist, you must edit this file and make the names unique. (i.e. Jen1 and Jen2) Also, if there is more than one section of the class, the lists must be combined into one.

2) To access CAS, type CAS and press RETURN.

```
$ CAS
```

3) CAS will prompt you for a group name (your class group), and a CAS name.



COURSEWARE AUTHORING SYSTEM

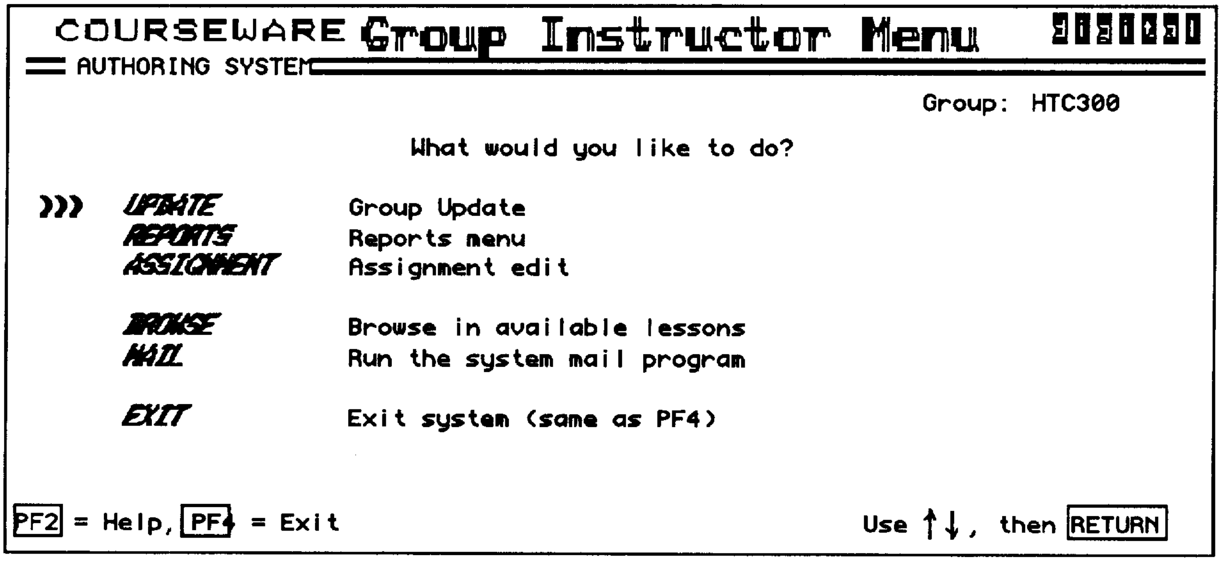
WELCOME

Delivery System Version 1.5

Group ›HTC300

C.A.S. Name › SUE

4) The Group Instructor Menu will appear. Choose Update.



COURSEWARE AUTHORING SYSTEM

Group Instructor Menu

Group: HTC300

What would you like to do?

››› UPDATE Group Update
REPORTS Reports menu
ASSIGNMENT Assignment edit

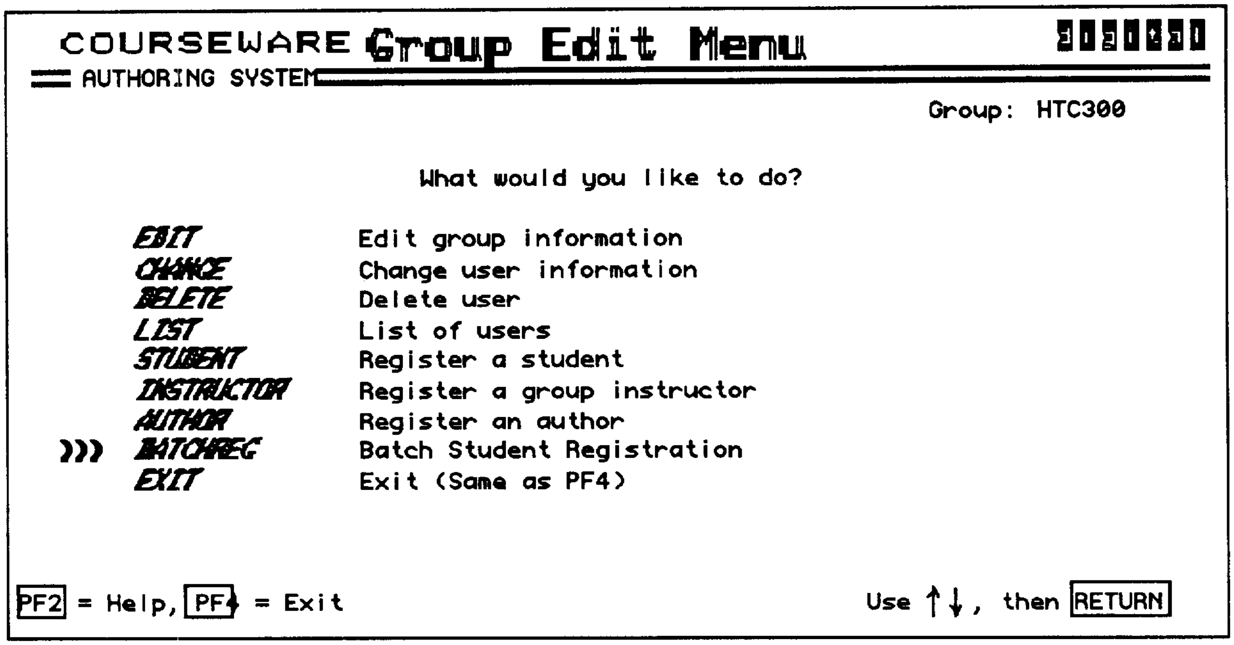
BROWSE Browse in available lessons
MAIL Run the system mail program

EXIT Exit system (same as PF4)

PF2 = Help, PF4 = Exit

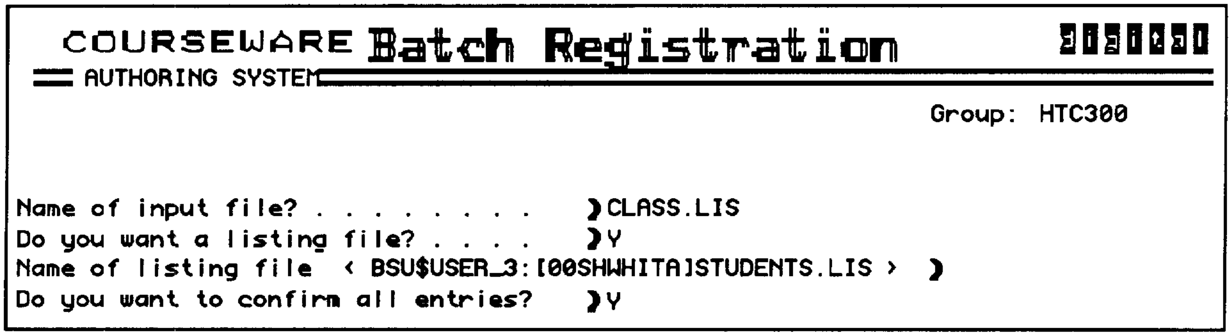
Use ↑↓, then RETURN

5) The Group Edit Menu is displayed; choose "batchreg."



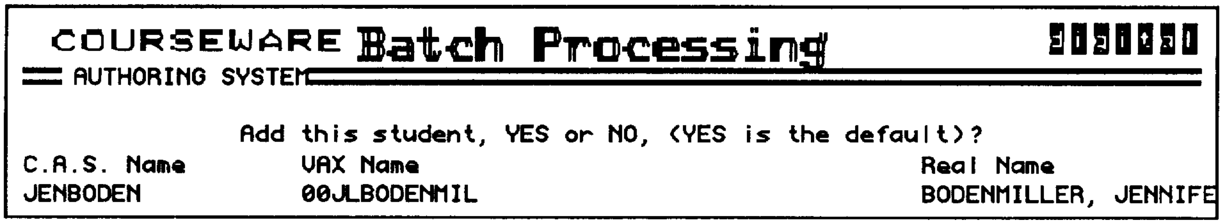
```
COURSEWARE Group Edit Menu
AUTHORING SYSTEM
                                                  Group:  HTC300

                     What would you like to do?

      EDIT          Edit group information
      CHANGE        Change user information
      DELETE        Delete user
      LIST          List of users
      STUDENT       Register a student
      INSTRUCTOR    Register a group instructor
      AUTHOR        Register an author
  >>> BATCHREG      Batch Student Registration
      EXIT          Exit (Same as PF4)

PF2 = Help, PF4 = Exit                        Use ↑↓, then RETURN
```

6) CAS prompts you for the following information.



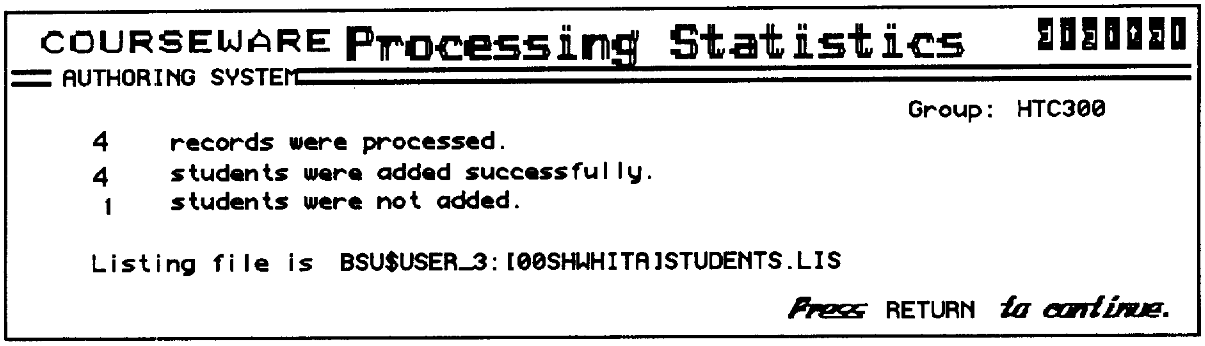
```
COURSEWARE Batch Registration
AUTHORING SYSTEM
                                                  Group:  HTC300

Name of input file? . . . . . . . . .    >CLASS.LIS
Do you want a listing file? . . . .      >Y
Name of listing file  < BSU$USER_3:[00SHWHITA]STUDENTS.LIS >  >
Do you want to confirm all entries?    >Y
```

7) If you chose to confirm all entries, CAS will ask you to verify each student. (This is optional.)



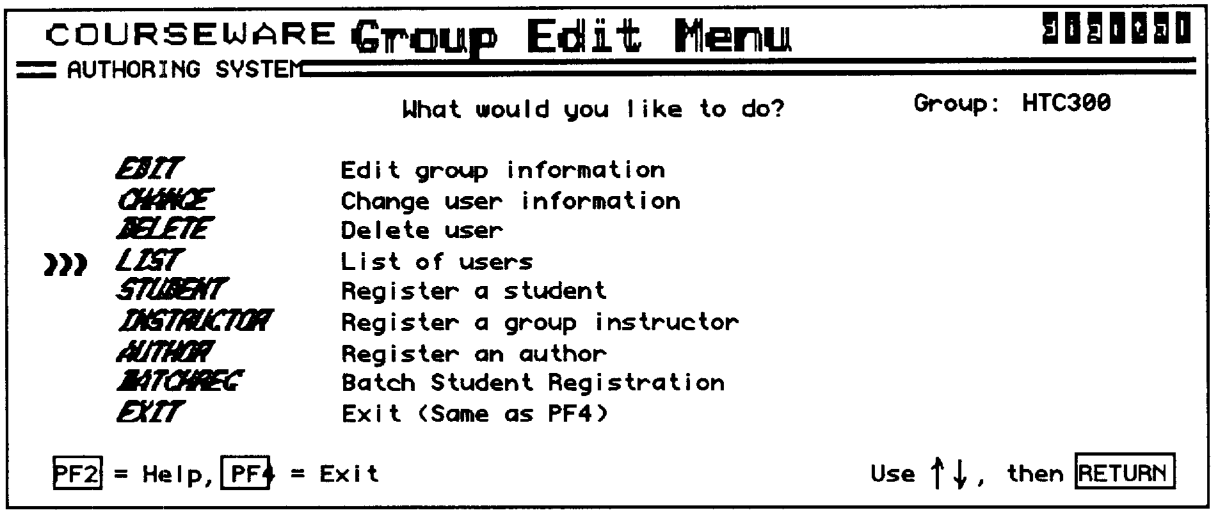
```
COURSEWARE Batch Processing
AUTHORING SYSTEM

            Add this student, YES or NO, (YES is the default)?
C.A.S. Name       VAX Name                        Real Name
JENBODEN          00JLBODENMIL                    BODENMILLER, JENNIFE
```

8) After the batch registration is completed, this screen appears.

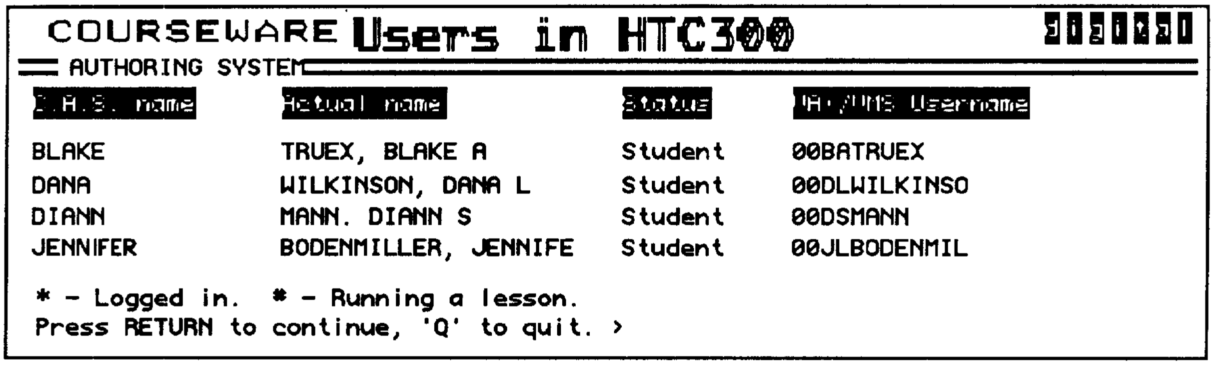


```
COURSEWARE Processing Statistics
AUTHORING SYSTEM
                                                      Group:  HTC300
      4     records were processed.
      4     students were added successfully.
      1     students were not added.

    Listing file is  BSU$USER_3:[00SHWHITA]STUDENTS.LIS
                                              Press RETURN to continue.
```

9) The list feature displays all users within a group.



```
COURSEWARE Group Edit Menu
AUTHORING SYSTEM
                         What would you like to do?          Group:  HTC300

       EDIT              Edit group information
       CHANGE            Change user information
       DELETE            Delete user
  )))  LIST              List of users
       STUDENT           Register a student
       INSTRUCTOR        Register a group instructor
       AUTHOR            Register an author
       BATCHREG          Batch Student Registration
       EXIT              Exit (Same as PF4)

 PF2 = Help, PF4 = Exit                                  Use ↑↓, then RETURN
```



```
COURSEWARE Users in HTC300
AUTHORING SYSTEM
C.A.S. name       Actual name               Status      VAX/VMS Username

BLAKE             TRUEX, BLAKE A            Student     00BATRUEX
DANA              WILKINSON, DANA L         Student     00DLWILKINSO
DIANN             MANN. DIANN S             Student     00DSMANN
JENNIFER          BODENMILLER, JENNIFE      Student     00JLBODENMIL

* - Logged in.   * - Running a lesson.
Press RETURN to continue, 'Q' to quit. >
```

10) Always remember to leave CAS with EXIT or "PF4."

Contact People

Marta McCoy
University Computing Services, RB 237
285-1541

Marta is the CAS system manager. She is the person to contact each quarter about registering a class under CAS. She is also the person who can help when a CAS user needs his/her id reset.

Herb Stahlke
English Department, RB 361
285-8413

Lathrop Johnson
Foreign Languages, NQ 146
285-1374

These two professors taught the DAL seminar which Dr. Whitaker attended. They have worked extensively with DAL lessons.

Sue Whitaker
Home Economics, PA 150A
285-5931

Dr. Whitaker is the person most familiar with this specific application and its history; the code and files for this project reside in her VAX account (00shwhitaker).

Sources of Help

COMPUTERWISE

The following two manuals are available through University Computing Services. Dr. Sue Whitaker owns a copy of each text.

Courseware Authoring System **User's Guide**
This book will answer any questions concerning CAS for the student, instructor, and author. CAS questions may also be directed to the system manager of CAS in University Computing Services.

Courseware Authoring System **DAL Reference Manual**
This manual was the source I used to learn the DAL language, which is the language used in GUIDE21. This text would be required to make changes to the program.

SEWINGWISE

The "Unit method..." is one which each student should own, since it is required for earlier HTC courses; therefore, it is cited as a reference for further help on the printed guidesheet.

The Singer reference book was used to derive instructions for some of the construction techniques described by the guidesheets.

Unit method of clothing construction. by the Iowa Home Economics Association, Iowa State University Press, 1977.

Singer Sewing Essentials. by the editors of Cy DeCosse, Cy Decosse Inc., 1984.

How to Publish a Lesson in CAS

The following pages describe the method for publishing a lesson in CAS, such as GUIDE21. Unless GUIDE21 is deleted from the list of published CAS lessons, this procedure will not have to be repeated. If revisions are made to the program, however, it will need to be republished.

A lesson can only be published by an **author**. As shown in this example, the author's publishing group for this project is Dr. Whitaker's and is called **PUBWHITAK.** Her CAS name for this group is SUE; the password is not public information.

How to Publish a Lesson in CAS

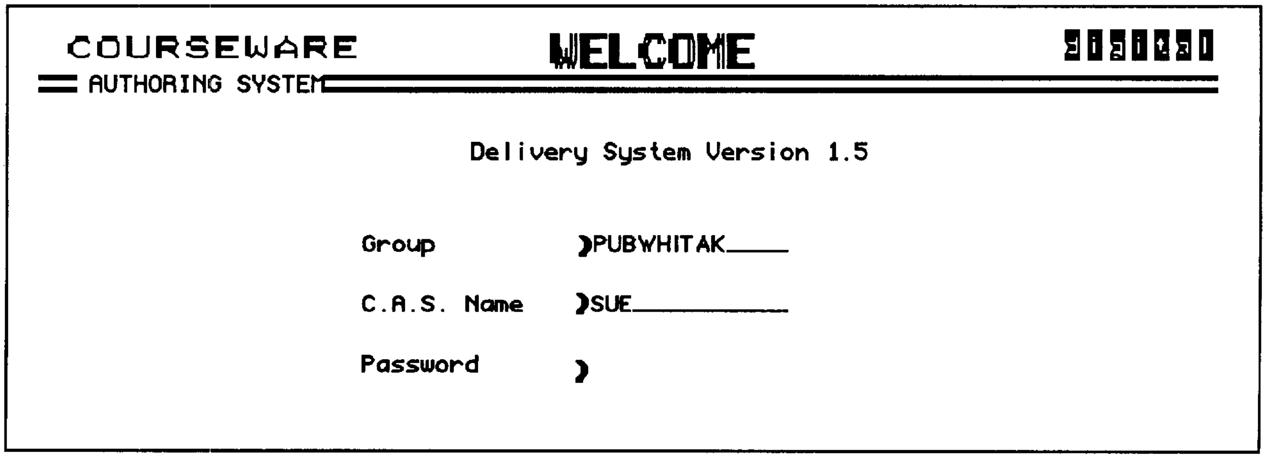
1) Compile and link the lesson in your VAX/VMS area.

```
$ DAL GUIDE21.DAL

$ LINK GUIDE21
```

2) To access CAS, type the letters CAS and press the RETURN key.

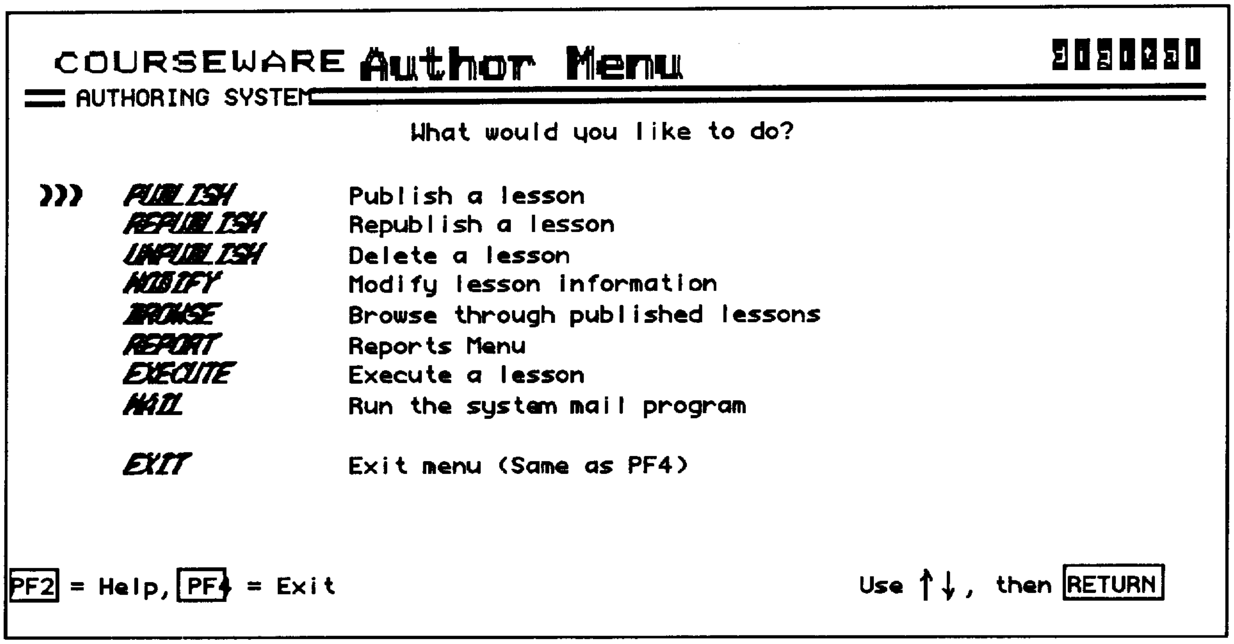
```
$ CAS
```

3) CAS will prompt you for a group name (your publishing group), CAS name, and password.



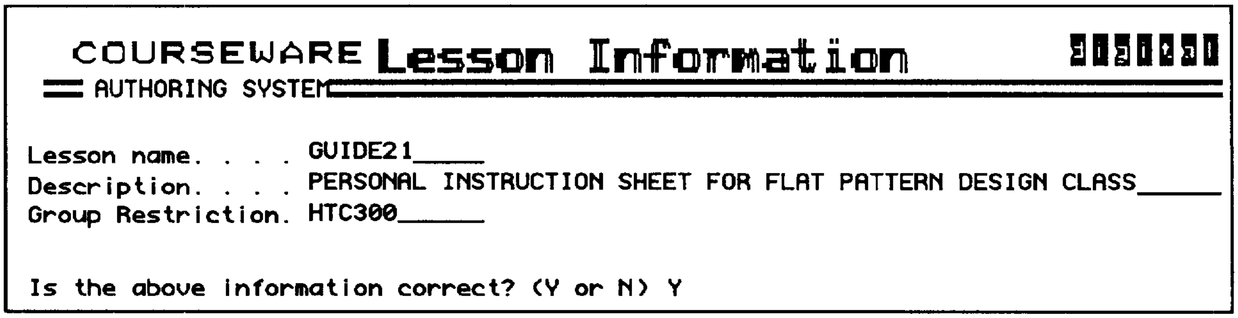
```
Delivery System Version 1.5

Group          ›PUBWHITAK____
C.A.S. Name    ›SUE__________
Password       ›
```

4) The Author Menu is displayed; press return to choose publish.



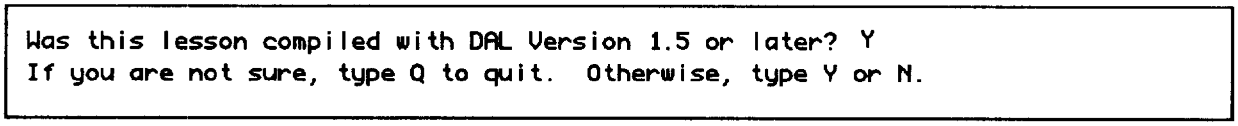
```
COURSEWARE Author Menu
AUTHORING SYSTEM
                    What would you like to do?

 >>>  PUBLISH      Publish a lesson
      REPUBLISH    Republish a lesson
      UNPUBLISH    Delete a lesson
      MODIFY       Modify lesson information
      BROWSE       Browse through published lessons
      REPORT       Reports Menu
      EXECUTE      Execute a lesson
      MAIL         Run the system mail program

      EXIT         Exit menu (Same as PF4)


PF2 = Help, PF4 = Exit                          Use ↑↓, then RETURN
```

5) When publishing a lesson, an author must supply this information:



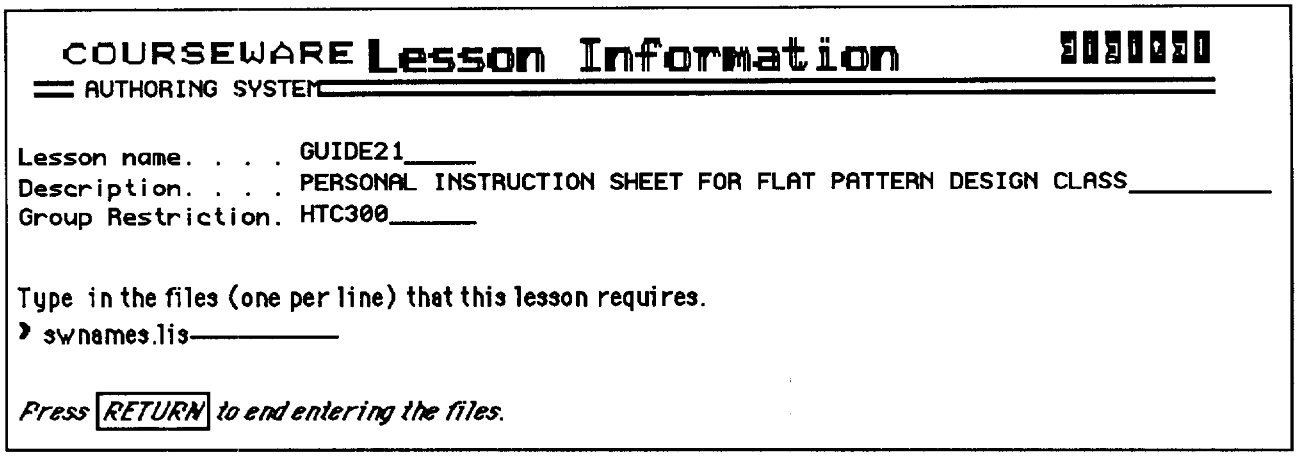
```
COURSEWARE Lesson Information
AUTHORING SYSTEM

Lesson name. . . . GUIDE21_____
Description. . . . PERSONAL INSTRUCTION SHEET FOR FLAT PATTERN DESIGN CLASS______
Group Restriction. HTC300______

Is the above information correct? (Y or N) Y
```

****A lesson can be restricted to one group. If it is restricted, it will only be available to the group specified.



```
Was this lesson compiled with DAL Version 1.5 or later? Y
If you are not sure, type Q to quit.  Otherwise, type Y or N.
```

6) Enter any auxiliary files the lesson requires.

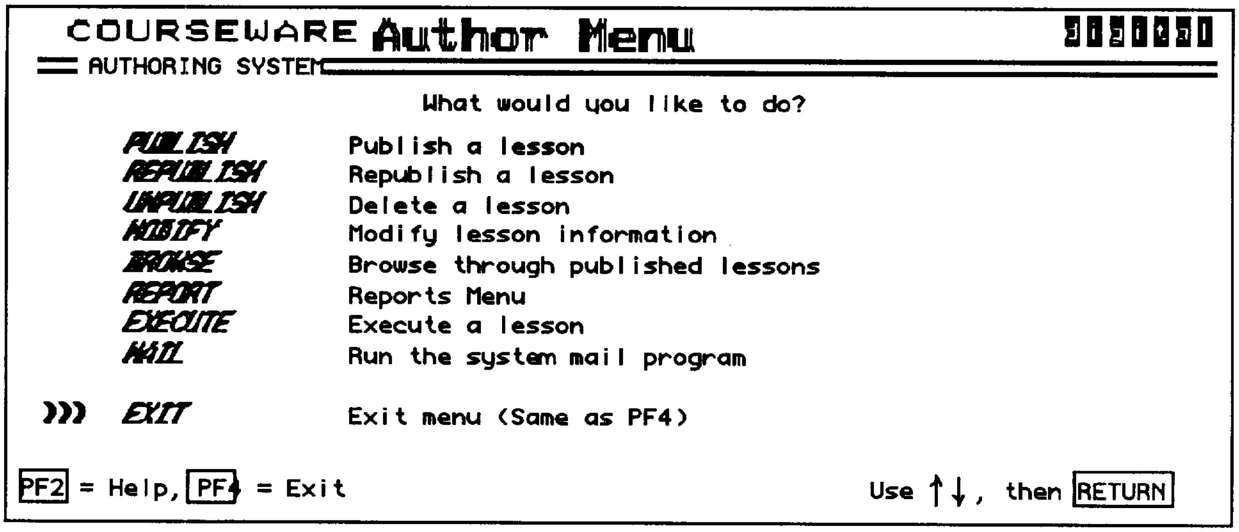


```
COURSEWARE Lesson Information
AUTHORING SYSTEM

Lesson name. . . .  GUIDE21
Description. . . .  PERSONAL INSTRUCTION SHEET FOR FLAT PATTERN DESIGN CLASS
Group Restriction.  HTC300

Type in the files (one per line) that this lesson requires.
› swnames.lis

Press RETURN to end entering the files.
```

After displaying this message, CAS will return to the Author Menu. If there are no error messages, the lesson was succesfully published.

```
Publishing lesson. . .
```

7) Always choose EXIT or press PF4 to leave CAS.



```
COURSEWARE Author Menu
AUTHORING SYSTEM
                 What would you like to do?
     PUBLISH      Publish a lesson
     REPUBLISH    Republish a lesson
     UNPUBLISH    Delete a lesson
     MODIFY       Modify lesson information
     BROWSE       Browse through published lessons
     REPORT       Reports Menu
     EXECUTE      Execute a lesson
     MAIL         Run the system mail program

 ››› EXIT         Exit menu (Same as PF4)

PF2 = Help, PF4 = Exit                           Use ↑↓, then RETURN
```

The files necessary to run Guide21 can be found in Dr. Sue Whitaker's VAX account. Her VAX address is : **BSU$USER_3:[00SHWHITA]**

The program may be run directly from her area by typing the following at the "$." **$ run bsu$user_3:[00shwhita]guide21**
Using this method of running the program bypasses the CAS interface, and would therefore be of use to anyone not registered in the course.

The protection has been set on all of the files necesary for the program so they cannot be deleted without first setting the protection.

The following are the data files which contain instructions for various garment construction techniques:
STAYST.
DART.
GATHER.
TUCK.
PLEAT.
PLAIN.SM
FLATFELL.SM
FRENCH.SM
KNITS.SM
OTHER.SM
NO.ZIP
LAPPED.ZIP
FLY.ZIP
OTHER.ZIP
NO.CLR
SHIRT.CLR
CONVERT.CLR
PETERPAN.CLR
SHAWL.CLR
BAND.CLR
OTHER.CLR
NO.SLV
SETHEM.SLV
SETCUFF.SLV
SETELASTIC.SLV
DOLMAN.SLV
KIMONO.SLV
RAGLAN.SLV
OTHER.SLV
NO.WST
ELASTIC.WST
ELASTICSEAM.WST
FITTED.WST
GATHERFIT.WST
FITGATHER.WST
GATHERGATHER.WS
OTHER.WST
NO.BND
GIRL.BND
BOY.BND
NO.PKT
PATCH.PKT
INSEAM.PKT
INSET.PKT
BUTTON.PKT
OTHER.PKT
HOOKDRESS.CLS
HOOKBAND.CLS
BUTTONHOLE.CLS
BUTTONLOOP.CLS
NO.CLS
OTHER.CLS
STRAIGHT.HEM
FULL.HEM
FLARED.HEM
PANTS.HEM
OTHER.HEM

The following are necessary files to run the Guide21 program. Guide21.dal is in fact the source code for the program, while guide21.exe is the executable file. Swnames.lis is a list of the data files above.
GUIDE21.DAL
GUIDE21.OBJ
GUIDE21.EXE
GUIDE21.PRM
GUIDE21.RST
SWNAMES.LIS
SUMMARY.LIS

The following files are created within the student's directory.
Guide.lis contains the individualized guidesheet and may be printed to any printer which is connected to the VAX.
COPY.COM
GUIDE.LIS
GUIDE21.PRM
GUIDE21.RST

Surveys and Correspondence

In an attempt to determine the need for the guidesheet program, surveys were sent to students who took the HTC 300 course during both the fall and winter quarters of the 1987-88 school year. Samples of the surveys and letters sent to these students can be found on pages 20 - 22. The results of the questionnaire revealed that the students were often unsure of the proper garment construction techniques, and that many of the students did not know where to go for help beyond asking for the professor's assistance. All of the students polled felt that it would have been helpful to have a personalized instruction sheet which explained how to sew the garment together.

The GUIDE21 program was successfully tested with a group of HTC 300 students during the spring of 1988. A comparable questionnaire, which can be found on page 23, was given to these students to complete after they had used the guidesheets to aid them in the construction of their garments. All of the students who filled out the survey agreed that it was helpful to have a personalized guidesheet.

In summary, the feedback from the students confirms the fact that there is a need for such a program as the one presented here; furthermore, it has been shown that the program can be a helpful tool in the flat pattern design course. Now that the program has been successfully developed, it is left to the professors and students of the future to realize its potential.

Ball State University
College of Applied Sciences and Technology
Department of Home Economics

April 14, 1988

Hello!

Since you were a student in last quarter's Flat Pattern Design Class, I am asking your help in providing some information about the course. I am working on a project with Dr. Sue Whitaker which will try to help the students in future flat pattern classes.

We are writing a program on Ball State's computer which will create a personalized guide sheet of instructions on how to construct a garment once the pattern has been designed. The way the program works is that it asks questions about the garment design and then it prints out instructions based on the student's answers. The instructions also point the student to specific reference books and gives page numbers to look at for further help.

We are trying to assess the need for such a program as ours, and we would greatly appreciate your help in this process. Please fill out the enclosed questionnaire and return it to Dr. Whitaker as soon as possible.

Thank you,

Barb Baumann

317-285-5931 Muncie, Indiana 47306-0250

Ball State University
College of Applied Sciences and Technology
Department of Home Economics

April 14, 1988

Hello!

Since you were a student in last fall quarter's Flat Pattern Design Class, I am asking your help in providing some information about the course. I am working on a project with Dr. Sue Whitaker which will try to help the students in future flat pattern classes.

We are writing a program on Ball State's computer which will create a personalized guide sheet of instructions on how to construct a garment once the pattern has been designed. The way the program works is that it asks questions about the garment design and then it prints out instructions based on the student's answers. The instructions also point the student to specific reference books and gives page numbers to look at for further help.

We are trying to assess the need for such a program as ours, and we would greatly appreciate your help in this process. Please fill out the enclosed questionnaire and return it to Dr. Whitaker as soon as possible.

Thank you,

Barb Baumann

317-285-5931 Muncie, Indiana 47306-0250

Flat Pattern Design Course Questionnaire

Directions: Please answer each question by checking the appropriate response.

1. Had you ever sewn before taking the HTC sequence? YES____ NO____

2. How many garments have you made within the past year?

0-5____ 6-10____ 11-15____ 16 or more____

3. Do you enjoy sewing? YES____ Usually____ Sometimes____ NO____

4. Once the pattern was designed in HTC 300 and you were ready to begin work on your actual garment:

Did you know how to construct your garment?

YES____ Usually____ Sometimes____ NO____

Did you feel comfortable working on your own?

YES____ Usually____ Sometimes____ NO____

Did you rely on the professor to tell you what steps to follow in constructing your garment?

YES____ Usually____ Sometimes____ NO____

Did you know where else to go for help besides the professor/graduate assistant?

YES____ Usually____ Sometimes____ NO____

Do you think it would have been helpful to have a personalized instruction sheet which explained how to sew the garment together?

YES____ Usually____ Sometimes____ NO____

5. Please include any comments you have about the course or about our project which you think might be helpful. Feel free to use the back of this page.

Thank you for help!
Please return to:
Dr. Sue Whitaker
Department of Home Economics
PA 150

Flat Pattern Design Course Questionnaire

Directions: Please answer each question by checking the appropriate response.

1. Had you ever sewn before taking the HTC sequence? YES____ NO____

2. How many garments have you made within the past year?

0-5____ 6-10____ 11-15____ 16 or more____

3. Do you enjoy sewing? YES____ Usually____ Sometimes____ NO____

4. Once the pattern was designed in HTC 300 and you were ready to begin work on your actual garment:

Did you know how to construct your garment?

YES____ Usually____ Sometimes____ NO____

Did you feel comfortable working on your own?

YES____ Usually____ Sometimes____ NO____

Did you rely on the professor to tell you what steps to follow in constructing your garment?

YES____ Usually____ Sometimes____ NO____

Did you know where else to go for help besides the professor/graduate assistant?

YES____ Usually____ Sometimes____ NO____

Do you think it was helpful to have a personalized instruction sheet which explained how to sew the garment together?

YES____ Usually____ Sometimes____ NO____

5. Please include any comments you have about the course or about our project which you think might be helpful. Feel free to use the back of this page.

Thank you for help!
Please return to:
Dr. Sue Whitaker
Department of Home Economics
PA 150

A Sample Guidesheet...

Appendix A

type guide.lis

HTC300 PERSONAL GUIDE SHEET

STAYSTITCHING

The purpose of staystitching is to keep the garment edges from stretching out of shape as the garment is handled during construction. Specific areas which need staystitching are the neckline and armscye.

Staystitching is a row of regular machine stitching through a single thickness of fabric. The line of stitching should be placed 1/2 inch from the edge. Staystitching is done with the grain, usually from the widest to the narrowest part of the garment.

For more information on staystitching see page 57 of the Unit Method of Clothing Construction.

GATHERS

Gathers give a soft, rounded shape which is easy to fit and comfortable to wear. They may be found at the waistline, sleeves, cuffs, yoke, or neckline. They are formed when a larger piece of fabric is drawn up to fit a smaller piece.

Gathers start with two stitching lines on a long piece of fabric. The threads are then pulled at each end to draw up the fabric so that it can be sewn to a shorter length of fabric.

1. Set stitch length to baste (6 - 8 stitches per inch). If you loosen the upper thread tension, it will be easier to gather up the fabric. STITCH 5/8" from the raw edge starting and ending at seamline. STITCH a second row in the seam allowance, about 1/4" away from the first row.

2. PIN the stitched edge to the corresponding garment piece, with right sides of the fabric together. Match seams, notches, and other markings.

3. PULL both bobbin threads, sliding the fabric along the threads to gather.

4. PIN gathers in place at frequent intervals, distributing gathers evenly between pins.

5. Reset stitch length and tension for regular sewing. STITCH with gathered side up, just outside the 5/8" gathering line.

6. TRIM seam allowances of any seams that have been sewn into the stitching line, trimming off corners at a diagonal.

7. PRESS seam allowance on wrong side, then open garment and press seam in the direction it will lie in the finished garment.
   *** Press seam toward gathers for puffy look, toward garment for a smoother look.

See pages 71-72 in the Unit Method of Clothing Construction for further help.

FRENCH SEAM

French seams are best suited to lightweight fabrics, especially sheer fabrics. A French seam should be used only on straight seams (such as those found at the bodice shoulder and side seams and skirt seams). A plain seam would need to be used for curved areas (to set in-sleeves, put on a collar or facing.

1. PIN WRONG sides of fabric together.

2. STITCH fabric together 3/8 inch from the edge.

3. TRIM the seam allowance to about 1/8 inch.

4. FOLD RIGHT sides together with stitching line exactly on fold.

5. PRESS the seam flat.

6. STITCH 1/4 inch from the fold.

7. PRESS the seam to one side.

For more information of the French seam see page 77 of the Unit Method of Clothing Construction.

PLAIN SEAM

To make a plain seam, pin fabric right sides together and stitch, backstitching at the beginning and the end of the seam. On the wrong side of the fabric, PRESS the seam flat, then PRESS seam open. The seam edges may be finished by:

A. pinking and stitching the edges.
B. machine zigzagging the edges.
C. machine overcasting the edges.
D. binding the edges (this is especially neat for an unlined jacket).
E. turning and stitching under the raw edges (turn under 1/8 inch or less of seam allowance and stitch).

For more information on these types of seam finishes see pages 77-80 of the Unit Method of Clothing Construction.

ZIPPER

Since you do not have a zipper, you will need to proceed on to finish your neckline.

FITTED FACING ON A V OR ROUNDED NECKLINE

Before applying the neckline facing you should have put in the zipper if one is needed and joined the shoulder seams together. PRESS shoulder seams open.

1. Interface the facing pieces. With right sides together join the the facing pieces at the shoulder seam. PRESS seams open. Finish the outside edge of the facing with the same finish that was selected to finish the seams.
2. Pin facing to the neck of the garment with right side together matching shoulder seams and notches. Stitch in place 5/8 inch

from edge. If garment has a V neckline stitch twice in the V area to reinforce.

3. Trim, grade and clip the neckline seam. Turn facing to the wrong side of the garment and press with the point of the iron.
4. Understitch from the right side of the garment through the facing and the seam allowance. If topstitching is desired understitching may not be necessary.
5. Tack the facing to the garment at the shoulder seam and zipper, if one has been used. PRESS well.

For more information on fitted neckline facings see pages 83-85 of Unit Method of Clothing Construction.

SET-IN SLEEVE WITH HEM

In this section you will be given directions for a plain (smooth cap) set-in sleeve. If your sleeve has gathers, pleats, or tucks you will need to do these before setting in the sleeve.

To make the sleeve:

1. **Put two rows of ease stitching from notch to notch around the cap of the sleeve. One row is 5/8 inch from the edge and the second is 1/2 inch from the edge.**
2. **With right sides together stitch the underarm seam of sleeve. Finish the seam in the manner other seams have been finished on the garment.**
3. The hem in the sleeve should be finished in the same way as the hem in the garment. Please refer to the hem directions given later in the guidesheet.

To set sleeve into bodice:

1. Pull ease thread from both sides to form a cap. In a plain sleeve there should not be gathers, just a smooth cap.
2. Pin sleeve into armscye with right sides together matching at shoulder, notches and underarm seam. HAND BASTE sleeves in and try on to check fit. (Need to have both sleeves in before trying on garment.)
3. If fit is acceptable machine stitch sleeves in place. Stitch first at 5/8 inch and then stitch a second time around the sleeve at just inside the 5/8 stitching line. This will reinforce the sleeve.
4. On all fabrics except sheer ones trim our the bottom (underarm) area of sleeve from notch to notch. Finish sleeve seam with a zigzag stitch. On a sheer fabric the sleeve may be trimmed down to 1/4 to 3/8 inch all the way around the sleeve and the raw edge bound with a bias tricot tape as a seam finish.
5. Press only the seam allowance of the sleeve. DO NOT PRESS into the sleeve cap.

For more information on the set-in sleeve with a hem see pages 108-11 of the Unit Method of Clothing Construction.

WAISTLINE WITH A BODICE THAT IS GATHERED ONTO A FITTED SKIRT

This dress has bodice which gathered in to fit onto a fitted skirt.

1. All seams on the bodice and skirt should be PRESSED open and finished before joining the two together.
2. Stitch two rows of ease stitching around the bottom of the bodice. Pull threads of ease stitching to make bodice fit the skirt.
3. With right sides together pin bodice to skirt matching side seams, center front and center back. Stitch seam 5/8 inch from edge.
4. Machine zigzag seam allowance edges together to finish the seam. PRESS the waistline seam up into the bodice.

For more information on putting a waistline which has a gathered bodice onto a fitted skirt see page 120 in the Unit Method of Clothing Construction or see your instructor.

SPECIAL PROBLEM WAISTBAND

Since you do not have a skirt or pants you do not need any directions on the waistband.

NO POCKETS

Since your garment does not have pockets you can proceed on to the next construction step.

BUTTONS AND BUTTONHOLES

Buttons and buttonholes are a pretty universal method of closure. They are used extensively on blouses and shirts.

1. Transfer the markings for button and buttonhole location to your garment. Know if you are making vertical or horizontal buttonholes.
2. Buttonholes will be made on the electronic machine. To use this you are required to get assistance from either the instructor or the graduate assistant.
3. Once buttonholes are made you are ready to cut. Cut through the center being careful not to cut the bar tacks at each end.
4. Mark the location of buttons. If the buttonhole is vertical the button goes in the center of the opening. If the buttonhole is horizontal the button is marked 1/8 inch from the outside end of the buttonhole.
5. Sew the button on using a double thread. If fabric is heavy you may have to make a shank if using a flat button. To make a shank insert a spacer while sewing on the button. Remove spacer and wrap thread around the thread between fabric and button to form a thread shank. Secure end of thread.
6. Flat buttons may be attached using the sewing machine if the special foot is available.

For more information on making buttonholes and dewing on buttons see pages 94-5 and 105 of the Unit Method of Clothing Construction.

DRESS/SKIRT WITH A FULL STRAIGHT SKIRT

The hem finish selected should reflect the type of fabric used in construction of your garment. The methods suggested would work on any type of fabric suited to this style of garment.

1. Measure and mark hem to determine the correct length of the finished garment. Wear belts and appropriate shoes when marking hem.
2. Pin up hem at markings and try on to check length and general appearance.
3. A straight skirt/dress with a full skirt should have no more than two inches of hem. Measure depth of hem from bottom of garment. Mark and cut to get width of hem even.
4. Finish the raw edge of the hem in the same way in which you finished the seams.
5. Pin hem in place. Hand stitch hem using the stitch recommended for the edge finish.
    a. turned under edge finish uses the blind lock stitch.
    b. pinked and stitched edge finish uses the hemming stitch.
    c. bound edge finish uses the hemming stitch.
    d. machine zigzag uses the hemming stitch.
    e. machine overcast uses the hemming stitch.
6. Once the hem is completed remove pins and PRESS the hem well.

NOTE: If the fabric used is a lightweight sheer a machine hem which has been turned under twice would be acceptable.

For more information on the hem for a dress/skirt with a full straight skirt see page 138-43 of the Unit Method of Clothing Construction.

With the completion of the hem you have completed your garment. You should now give the garment a good FINAL PRESSING.

The Program...

Appendix **B**

```
  type guide21.dal
LESSON  GUIDE21
CCOLOR  ALL
FCOLOR  BLUE
BCOLOR  DARK
DEFINE  OPTIONS[57,2]:STRING
DEFINE  N:INTEGER

DEFINE  SUMMARY:STRING,PERMANENT
DEFINE  COPY:STRING


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       Introduction to the lesson GUIDE to be used in HTC 300.
;       This describes the objectives and purpose of the program.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


DO      LOAD
DO      TITLE
DO      INTRO
DO      FABRIC
DO      STAYST
DO      SHAPING
DO      SEAMS
DO      ZIPPER
DO      NECKLINE
DO      SLEEVES
DO      WAISTLINE
DO      BAND
DO      POCKETS
DO      CLOSURES
DO      HEM
DO      DISPLAY
DO      SUMFILE
DO      PRINT



;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will load the files from the array.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    LOAD
OPEN    "BSU$USER_3:[00SHWHITA]SWNAMES.LIS",0,READ
FOR    N:=1,57
.       GET     0, OPTIONS[N,1]
.       ASSIGN  OPTIONS[N,2]:="0"
ENDFOR
CLOSE   0
```

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The unit TITLE will introduce the student to the program
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    TITLE
AT      129
SIZE    3
WRITE   WELCOME
AT      335
WRITE   TO
AT      529
WRITE   WRITING
AT      734
WRITE   YOUR
AT      926
WRITE   GUIDESHEET
SIZE    1
AT      1532
WRITE   COMPUTER PROGRAM
AT      1634
WRITE   DEVELOPED BY
AT      1722
WRITE   SUE H. WHITAKER, ASSOCIATE PROFESSOR
AT      1825
WRITE   BARBARA BAUMANN, ID499 STUDENT
AT      1934
WRITE   FOR USE IN
AT      2034
WRITE   HTC 300/501
PAUSE   ELAPSED,5.0
ERASE



UNIT    INTRO
AT              105
SIZE    2
ITALICS -20
WRITE   INTRO
SIZE    1
ITALICS 0
AT              410
WRITE   The purpose of this program is to provide you with a guidesheet
        that will aid you in constructing the garment that you have designed
        for this class.  As you move through the program, you will be asked to
        respond to various questions about your original design.


        Each question is on a separate screen.  After you have answered a
        question you will need to PRESS RETURN to get the next screen.
        The RETURN key is located on the right hand side of the keyboard.


        WANT TO TRY IT?
MODE    INVERSE
AT      1850
WRITE   PRESS RETURN
MODE    NORMAL
PAUSE
ERASE
```

```
AT      410
WRITE   GOOD!  You are now on the next page.  If you will do this each time
        you have answered a question, you will be able to proceed through
        the program.


        DIRECTIONS:  As you move through the program you will be asked to
        respond to various questions about the design of your garment.  Please
        be very careful in answering each question as the response will
        determine the printed directions you are given for constructing
        your garment.


        NOTE:  If you hit the wrong letter, you can use the DELETE key to eras
        your answer and then you can replace it with the correct one.
        (The DELETE key is on the upper right-hand part of the keyboard.)
        For each question, press RETURN after you have selected an answer.

AT      1850
MODE    INVERSE
WRITE   PRESS RETURN
MODE    NORMAL
PAUSE
ERASE



;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit is designed to allow the student to identify the type of
;       fabric they are using in constructing their garment.  This will
;       determine the type of construction techniques used.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    FABRIC
AT      105
SIZE    2
ITALICS -20
WRITE   FABRIC
AT      309
ITALICS 0
SIZE    1
WRITE   The type of fabric you have chosen for your garment will effect
        the construction techniques you will need to use.  This
        is especially true for seam finishes, interfacing, and hems.
        From the choices given below select the type of fabric that most
        nearly describes the fabric you are using in your project.
AT      910
WRITE   WHAT TYPE OF FABRIC ARE YOU USING FOR YOUR GARMENT?
AT      1015
WRITE   A.  Lightweight synthetic/cotton blend
        B.  Medium to heavy weight synthetic/cotton blend
        C.  Lightweight 100% synthetic
        D.  Medium to heavy-weight 100% synthetic
        E.  Lightweight knit
        F.  Medium to heavy-weight knit
        G.  Other
AT      1810
MODE    INVERSE
```

```
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A|B|C|D|E|F|G
WRONG
.       WRITC   VALID CHOICES ARE A - G.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[6,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[7,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[8,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[7,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[9,2]:="1"
VALUE   "F","f"
.       ASSIGN  OPTIONS[9,2]:="1"
VALUE   "G","g"
.       ASSIGN  OPTIONS[10,2]:="1"
ENDTEST
ERASE

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit allows the student to determine if he/she needs to do
;       staystitching.  If you are sewing on a woven fabric and have
;       curved edges (neckline/armscye) you will need to do staystitching.
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    STAYST
AT      105
SIZE    2
ITALICS -20
WRITE   STAYSTITCHING
AT      310
ITALICS 0
SIZE    1
WRITE   It is not always necessary for one to do staystitching.
        The type of fabric and the design on the garment will determine
        if staystitching is necessary.  If your fabric is a woven fabric
        and/or if you have curved edges (neckline/armscye) you will need
        to do staystitching.
AT      1010
WRITE   DO YOU NEED TO DO STAYSTITCHING?  YES/NO
AT      1215
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   YES|Y|y|NO|N|n
WRONG
.       WRITC   VALID CHOICES ARE YES AND NO.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "Y","y"
.       ASSIGN  OPTIONS[1,2]:="1"
ENDTEST
ERASE
```

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The purpose of the dart unit is to determine what type of shaping
;       techniques are used in his/her garment.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    SHAPING
AT      105
SIZE    2
ITALICS -20
WRITE   SHAPING
ITALICS 0
AT      509
SIZE    1
WRITE   Shaping a flat piece of fabric to the curves of your figure can be
        accomplished with several different shape building techniques.  Darts,
        gathers, pleats, and tucks all work to control fabric fullness, but ea

        creates a different effect.
AT      1010
WRITE   WHAT SHAPING TECHNIQUE DOES YOUR GARMENT HAVE?
AT      1215
WRITE   A.  Darts
        B.  Gathers
        C.  Tucks
        D.  Pleats
        E.  None
AT      1815
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D¦E
WRONG
.       WRITC   VALID CHOICES ARE A - E.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[2,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[3,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[4,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[5,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[2,2]:="0"
ENDTEST
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The purpose of this unit is to determine the type of seams and seam
;       finishes needed on the garment.  No response is needed from the studen
;       as this what is needed will be determine from the type of fabric being
;       used and the style of garment being made.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
```

```
UNIT    SEAMS
AT      105
SIZE    2
ITALICS -20
WRITE   SEAMS
AT      310
ITALICS 0
SIZE    1
WRITE   The type of seams and seam finishes used will be depend in large
        part on the type of fabric being used.  To a smaller extent the
        design of the garment affects the choice of seams and seam
        finish.

        You will not be selecting a particular type of seam or seam
        finish to use, but rather recommended types of seams and seam
        finishes will be given to you on your guide sheet.  The
        recommendations will be made based on your fabric type and the
        style of garment you are making.
AT      1850
MODE    INVERSE
WRITE   PRESS RETURN
MODE    NORMAL
PAUSE
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The unit will allow the student to determine if he/she needs
;       instructions for putting in a zipper and if so what type of zipper.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    ZIPPER
AT      105
SIZE    2
ITALICS -20
WRITE   ZIPPER
ITALICS 0
AT      310
SIZE    1
WRITE   The zipper may be necessary to allow you to get your garment
        on and off.  This is especially true with a skirt or pants.
        If a zipper is needed a lapped zipper will be used unless a
        fly zipper is needed for pants.
AT      810
WRITE   WHAT TYPE OF ZIPPER DO YOU NEED FOR YOUR GARMENT?
AT      1015
WRITE   A.  I do not have a zipper
        B.  Lapped Zipper
        C.  Fly-front Zipper
        D.  Other
AT      1515
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D
WRONG
.       WRITC   VALID CHOICES ARE A - D.
.       PAUSE   ELAPSED,3.0
```

```
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[11,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[12,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[13,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[14,2]:="1"
ENDTEST
ERASE

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will allow the student to identify the type of neckline
;       on the garment.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    NECKLINE
AT      105
SIZE    2
ITALICS -20
WRITE   NECKLINE
AT      310
ITALICS 0
SIZE    1
WRITE   The neckline of any garment is either finished as a plain neckline
        (without a collar) or with a collar.  Select the neckline description
        that best describes your garment design.
AT      710
WRITE   WHAT TYPE OF NECKLINE DO YOU HAVE ON YOUR GARMENT?
AT      910
WRITE   A.  A V, square, or rounded neckline without a collar
        B.  A shirt style collar
        C.  A convertible collar
        D.  A Peter Pan collar
        E.  A shawl collar
        F.  A band collar (with or without tie)
        G.  Other

AT      1710
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A|B|C|D|E|F|G
WRONG
.       WRITC   VALID CHOICES ARE A - G.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[15,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[16,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[17,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[18,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[19,2]:="1"
VALUE   "F","g"
```

```
.       ASSIGN   OPTIONS[20,2]:="1"
VALUE   "G","g"
.       ASSIGN   OPTIONS[21,2]:="1"
ENDTEST
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The purpose of this unit is to identify the type of sleeves found
;       in the original garment.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    SLEEVES
AT      105
SIZE    2
ITALICS -20
WRITE   SLEEVES
AT      310
ITALICS 0
SIZE    1
WRITE   The armscye of your garment can be finished in several ways, including
        sleeveless.  Select the description which describes your sleeves.
AT      610
WRITE   WHAT TYPE OF SLEEVE IS IN YOUR GARMENT?
AT      815
WRITE   A.  Sleeveless
        B.  Set in sleeve with hem
        C.  Set in sleeve with cuff
        D.  Set in sleeve with elastic at wrist
        E.  Dolman sleeve with hem
        F.  Kimono sleeve with hem
        G.  Raglan sleeve with hem
        H.  Other
AT      1615
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D¦E¦F¦G¦H
WRONG
.       WRITC    VALID CHOICES ARE A - H.
.       PAUSE    ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN   OPTIONS[22,2]:="1"
VALUE   "B","b"
.       ASSIGN   OPTIONS[23,2]:="1"
VALUE   "C","c"
.       ASSIGN   OPTIONS[24,2]:="1"
VALUE   "D","d"
.       ASSIGN   OPTIONS[25,2]:="1"
VALUE   "E","e"
.       ASSIGN   OPTIONS[26,2]:="1"
VALUE   "F","f"
.       ASSIGN   OPTIONS[27,2]:="1"
VALUE   "G","g"
.       ASSIGN   OPTIONS[28,2]:="1"
VALUE   "H","h"
.       ASSIGN   OPTIONS[29,2]:="1"
ENDTEST
ERASE
```

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will determine if the garment has a waistline seam and
;       then provide instructions for completing the seam.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    WAISTLINE
AT      105
SIZE    2
ITALICS -20
WRITE   WAISTLINE
ITALICS 0
AT      310
SIZE    1
WRITE   If you have made a dress it is possible that you have a waistline,
        although not all dresses have a waistline.  The way in which a
        waistline is finished may vary.  If you have no waistline select
        A, but if you have a waistline select the letter that best describes
        the type of waistline on your dress.
AT      910
WRITE   WHAT TYPE OF WAISTLINE DO YOU HAVE ON YOUR DRESS?
AT      1015
WRITE   A.  No waistline
        B.  Elastic without a seam
        C.  Elastic with a seam
        D.  Fitted, both bodice and skirt
        E.  Bodice gathered onto a fitted skirt
        F.  Skirt gathered onto a fitting bodice
        G.  Bodice gathered onto a gathered skirt
        H.  Other
AT      1915
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D¦E¦F¦G¦H
WRONG
.       WRITC   VALID CHOICES ARE A - H.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[30,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[31,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[32,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[33,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[34,2]:="1"
VALUE   "F","f"
.       ASSIGN  OPTIONS[35,2]:="1"
VALUE   "G","g"
.       ASSIGN  OPTIONS[36,2]:="1"
VALUE   "H","h"
.       ASSIGN  OPTIONS[37,2]:="1"
ENDTEST
ERASE
```

```
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The unit is designed for those students who are making either a
;       skirt or a pair of pants.
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    BAND
AT      105
SIZE    2
ITALICS -20
WRITE   BAND
ITALICS 0
AT      310
SIZE    1
WRITE   If you have designed either a skirt or a pair of pants you will need t
        attach a waistband.  For the female student the steps for doing
        either are the same.  For the male student the steps for putting on a
        waistband are slightly different.  Select your response accordingly.
AT      810
WRITE   WHAT TYPE OF DIRECTIONS DO YOU NEED FOR A WAISTLINE?
AT      1015
WRITE   A.  I do not have a waistband
        B.  I need directions for a waistband for a female
        C.  I need directions for a waistband for a male
AT      1415
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C
WRONG
.       WRITC   VALID CHOICES ARE A - C.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[38,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[39,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[40,2]:="1"
ENDTEST
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       If the student has a pocket this unit will allow the student to
;       identify the type of pocket that is on/in his/her original
;       garment.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

UNIT    POCKETS
ITALICS -20
AT      105
SIZE    2
WRITE   POCKETS
ITALICS 0
AT      310
SIZE    1
WRITE   The use of pockets in your garment was optional.  However, if
```

```
        you have designed a garment with pockets you can get instructions
        for making the pockets by identifying the types of pockets used.
AT      710
WRITE   WHAT TYPE OF POCKETS DOES YOUR GARMENT HAVE?
AT      915
WRITE   A.  My garment does not have pockets.
        B.  Patch pockets
        C.  Inseam pockets
        D.  Inset (slant) pockets
        E.  Buttonhole pockets
        F.  Other
AT      1815
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A!B!C!D!E!F
WRONG
.       WRITC   VALID CHOICES ARE A - F.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[41,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[42,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[43,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[44,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[45,2]:="1"
VALUE   "F","f"
.       ASSIGN  OPTIONS[46,2]:="1"
ENDTEST
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       The unit is for the student who needs a closure other than the
;       zipper.  It is possible that a student may need more than one
;       type of closure.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    CLOSURES
ITALICS -20
AT      105
SIZE    2
WRITE   CLOSURES
ITALICS 0
AT      310
SIZE    1
WRITE   Not all garments have closures. If you have used a zipper you may
        also need to use another type of closure.  You may also need more
        than one type of closure.
AT      710
WRITE   WHAT TYPE OF CLOSURE DO YOU NEED TO USE?
AT      915
WRITE   A.  Hook and eye at the top of a zipper on a dress
        B.  Hook and eye on a skirt or pants band
        C.  Buttons and buttonholes
```

```
        D.  Button and thread loop
        E.  I do not have any closures
        F.  Other
AT      1615
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D¦E¦F
WRONG
.       WRITC   VALID CHOICES ARE A - F.
.       PAUSE   ELAPSED,3.0
ENDQ
TEST    RESPONSE
VALUE   "A","a"
.       ASSIGN  OPTIONS[47,2]:="1"
VALUE   "B","b"
.       ASSIGN  OPTIONS[48,2]:="1"
VALUE   "C","c"
.       ASSIGN  OPTIONS[49,2]:="1"
VALUE   "D","d"
.       ASSIGN  OPTIONS[50,2]:="1"
VALUE   "E","e"
.       ASSIGN  OPTIONS[51,2]:="1"
VALUE   "F","f"
.       ASSIGN  OPTIONS[52,2]:="1"
ENDTEST
ERASE

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will get the student directions on the type of hem
;       that is appropriate for them to use depending upon the type
;       of garment being made and the type of fabric used.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    HEM
AT      105
SIZE    2
WRITE   HEM
AT      305
SIZE    1
WRITE   The type of hem used to finish a garment is dependent upon both
        the fabric and style of the garment.  The type of fabric used
        to make your garment was identified earlier.  Additional
        information on your garment design will help to determine the
        type of hem needed.
AT      910
WRITE   WHICH OF THE FOLLOWING BEST DESCRIBES YOUR GARMENT?
AT      1015
WRITE   A.  Dress/skirt with a straight skirt
        B.  Dress/skirt with a full straight skirt
        C.  Dress/skirt with a flared skirt
        D.  Pants
        E.  Other
AT      1615
MODE    INVERSE
WRITE   RECORD YOUR RESPONSE AND PRESS RETURN
MODE    NORMAL
QUERY   *
RIGHT   A¦B¦C¦D¦E
WRONG
```

```
.        WRITC    VALID CHOICES ARE A - E.
.        PAUSE    ELAPSED,3.0
ENDQ
TEST     RESPONSE
VALUE    "A","a"
.        ASSIGN   OPTIONS[53,2]:="1"
VALUE    "B","b"
.        ASSIGN   OPTIONS[54,2]:="1"
VALUE    "C","c"
.        ASSIGN   OPTIONS[55,2]:="1"
VALUE    "D","d"
.        ASSIGN   OPTIONS[56,2]:="1"
VALUE    "E","e"
.        ASSIGN   OPTIONS[57,2]:="1"
ENDTEST
ERASE



;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;        This unit will display for the student a summary of his/her responses
;        as they worked through the program.  The student may at this point
;        make changes in their choices before the guidesheet is printed.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT     DISPLAY
AT       105
SIZE     2
ITALICS -20
WRITE    SUMMARY OF YOUR RESPONSES
ITALICS 0
AT       310
SIZE     1
WRITE    Based on your responses the directions for the following will be print
         to help you construct your garment:
AT       615
FOR      N:=1,57
.        IF       OPTIONS[N,2]="1"
.        .        WRITC    <<S,N>> <<S,OPTIONS[N,1]>>
.        ENDIF
ENDFOR
AT       1810
WRITE    If after reviewing the list you wish to review and/or change any of th
         items selected, type in the number listed in front of the item.  If yo
         wish no changes press the letter  P  and PRESS RETURN.
INPUT
ASSIGN   RESPONSE:=UPPER(RESPONSE)
BRANCH   RESPONSE="P",$LABEL

TEST     NUMBER(RESPONSE)
VALUE    1..57
.        ASSIGN   OPTIONS[NUMBER(RESPONSE),2]:="0"
OTHER
.        AT       2210
.        WRITE    VALID CHOICES ARE 1 - 57, OR P.  PRESS RETURN TO CONTINUE.
.        PAUSE
.        ERASE
.        REDO
ENDTEST

TEST     NUMBER(RESPONSE)
```

```
VALUE   1
.       ERASE
.       DO      STAYST
.       REDO
VALUE   2..5
.       ERASE
.       DO      SHAPING
.       REDO
VALUE   6..10
.       ERASE
.       DO      FABRIC
.       REDO
VALUE   11..14
.       ERASE
.       DO      ZIPPER
.       REDO
VALUE   15..21
.       ERASE
.       DO      NECKLINE
.       REDO
VALUE   22..29
.       ERASE
.       DO      SLEEVES
.       REDO
VALUE   30..37
.       ERASE
.       DO      WAISTLINE
.       REDO
VALUE   38..40
.       ERASE
.       DO      BAND
.       REDO
VALUE   41..46
.       ERASE
.       DO      POCKETS
.       REDO
VALUE   47..52
.       ERASE
.       DO      CLOSURES
.       REDO
VALUE   53..57
.       ERASE
.       DO      HEM
.       REDO
ENDTEST
$LABEL
ERASE


;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will provide the instructor with a listing of the
;       choices made by the student.
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    SUMFILE
OPEN    "bsu$user_3:[00shwhita]SUMMARY.LIS",0,WRITE
PUT     0,NAME
FOR     N:=1,57
.       IF      OPTIONS[N,2]="1"
.       .       PUT     0,OPTIONS[N,1]
.       ENDIF
```

```
ENDFOR
CLOSE   0

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;
;
;       This unit will print the guidesheet!!!!!!!!!!
;
;
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;


UNIT    PRINT
DO      LIB$SPAWN("DELED sys$login:GUIDE.LIS;*")
OPEN    "sys$login:GUIDE.LIS",0,write
PUT     0,"HTC300 PERSONAL GUIDE SHEET"
CLOSE   0
ASSIGN  COPY:="COPY sys$login:GUIDE.LIS"
FOR     N:=1,57
.       IF      OPTIONS[N,2]= "1"
.       .       ASSIGN COPY:=COPY+","+OPTIONS[n,1]
.       ENDIF
ENDFOR
ASSIGN COPY:=COPY+" "+"sys$login:GUIDE.LIS"
DO      LIB$SPAWN("DELED sys$login:COPY.COM;*")
OPEN    "sys$login:COPY.COM",1,write
;
; SW is a logical name for bsu$user_3:[00shwhita]
;
PUT     1,"ASSIGN BSU$USER_3:[00SHWHITA] SW"
PUT     1,COPY
CLOSE   1

AT      105
SIZE    2
ITALICS -20
WRITE   WORKING...
ITALICS 0
AT      505
SIZE    2
WRITE   ONCE YOU LOG OFF, YOU CAN
        PICK UP YOUR PRINTOUT IN RB134.
DO      LIB$SPAWN("@SYS$LOGIN:copy")
DO      LIB$SPAWN("P_RB sys$login:GUIDE.LIS")
ERASE



ENDLESSON
$
```